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US 3712376 A US 3191677 A

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(71) Applicant(s)

Petrolite Wellsystems Limited
(Incorporated in the United Kingdom)
Offshore Technology Park, Claymore Drive,
Bridge of Don, ABERDEEN, AB23 8GD,
United Kingdom

(72) Inventor(s)

Paul David Metcalfe
Neil Andrew Abercrombie Simpson

Astec Developments Limited
(Incorporated in the United Kingdom)
ODS Building, Greenbank Crescent, East Tulloch,
ABERDEEN, AB12 3BG, United Kingdom

(74) Agent and/or Address for Service

Cruikshank & Fairweather
19 Royal Exchange Square, GLASGOW, G1 3AE,
United Kingdom

(54) Abstract Title

A deformable downhole sealing device

(57) A method of providing a downhole seal (eg. a packer), in a wellbore, between inner tubing 11 (eg. production tubing) and outer tubing 16 comprises: providing an intermediate tubing section 18 defining a seal arrangement for engaging with the inner tubing 11. The intermediate tubing 18 is radially plastically deformed to form an annular extension (40a fig 2). Deformation is achieved via. an expander device 10 comprising a body carrying a plurality of rollers 26. Strips 36 may be included between the deformed zones and the outer tubing to improve the sealing of the expandable tubing 18 to the outer tubing 16. The said extension creates a sealing contact with the outer tubing 16.

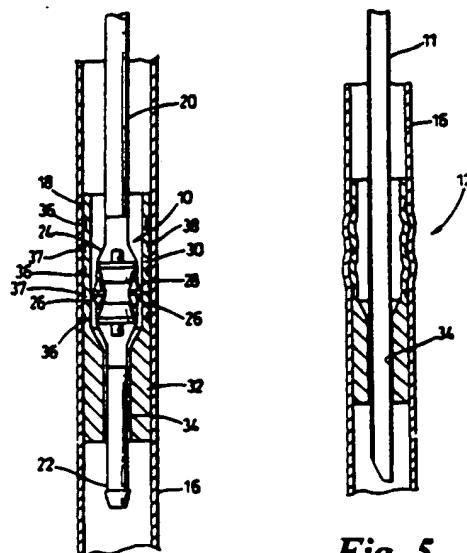


Fig. 1

Fig. 5

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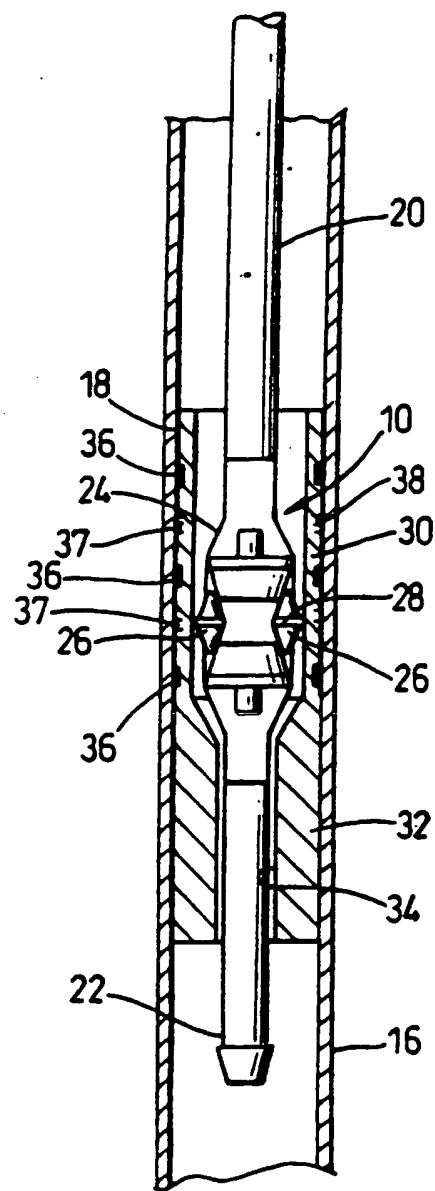


Fig. 1

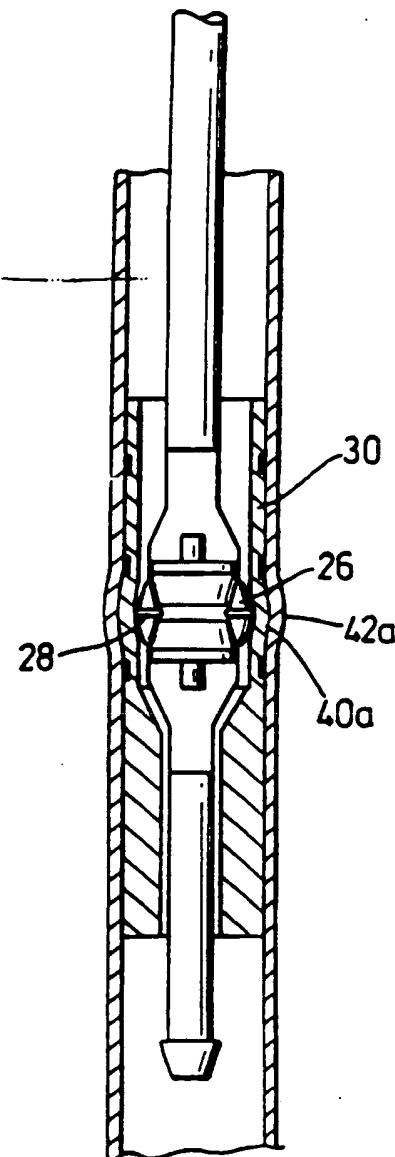


Fig. 2

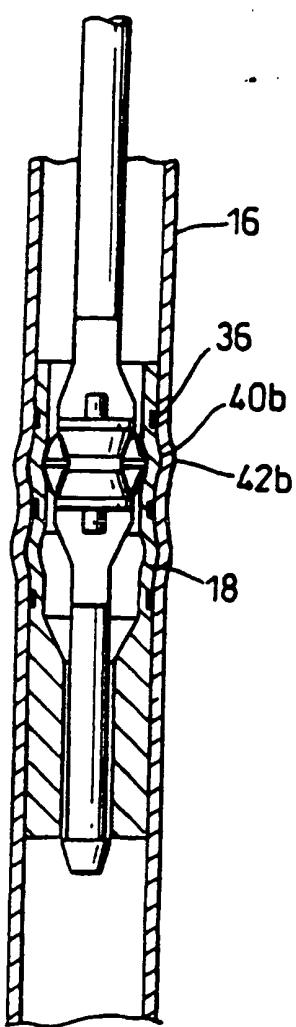


Fig. 3

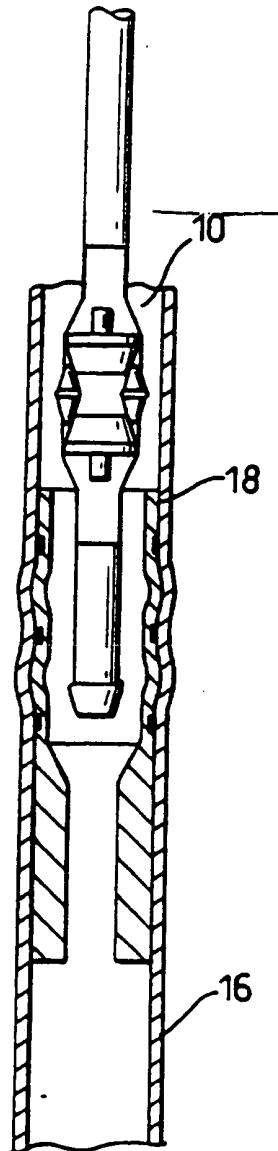


Fig. 4

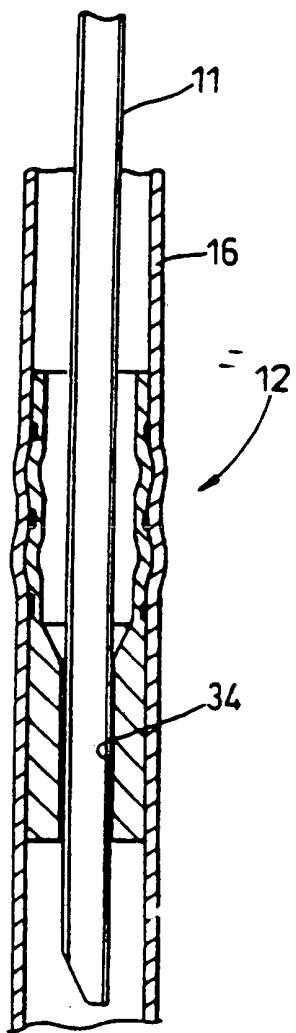


Fig. 5

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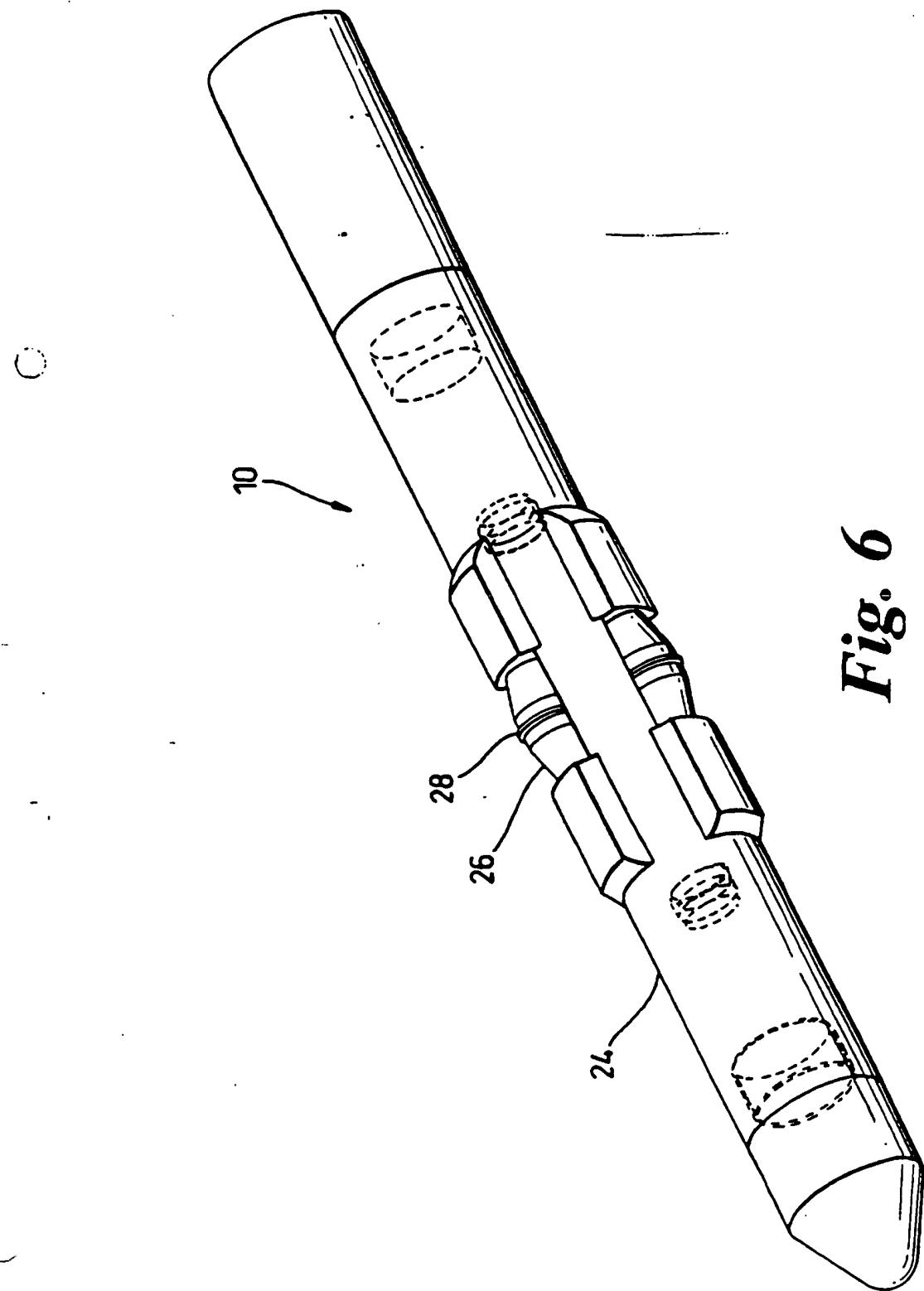


Fig. 6

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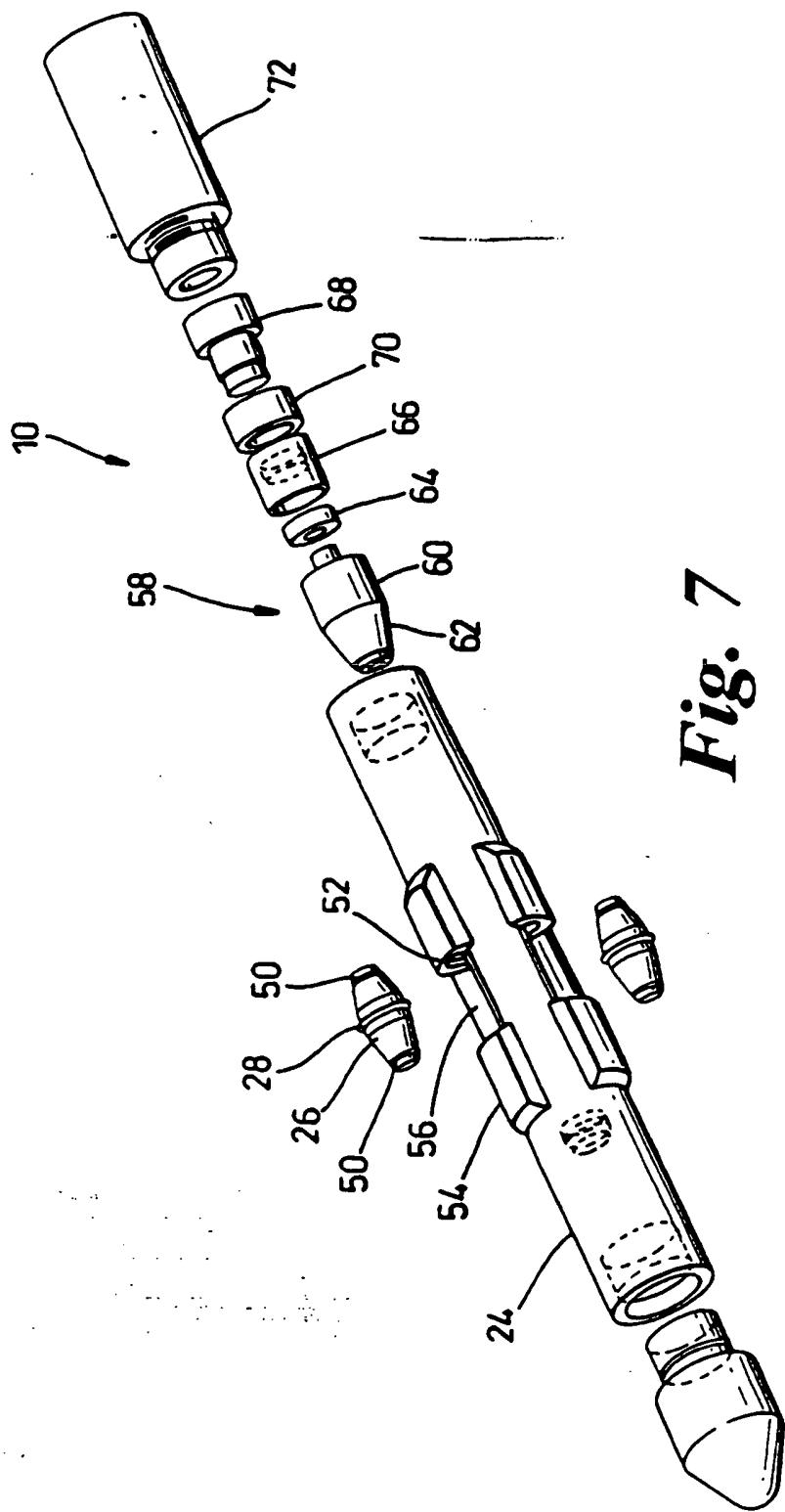


Fig. 7

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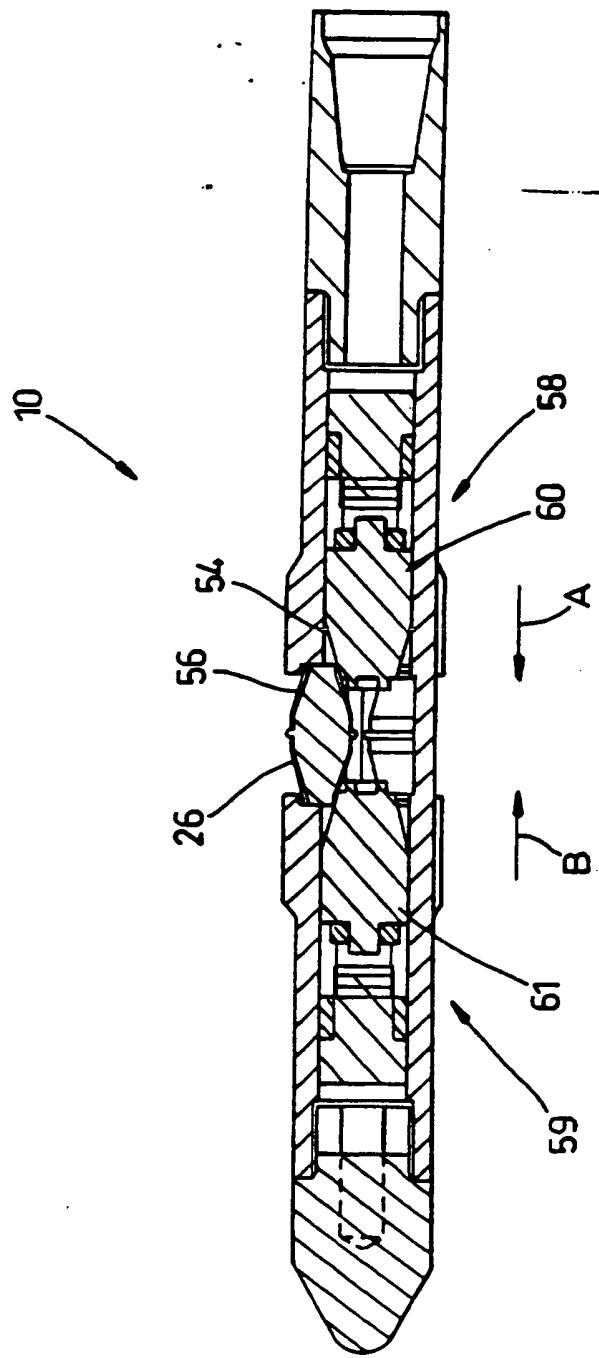


Fig. 8